Municipality/Organization: GREENLAND, NH

EPA NPDES Permit Number:

MaDEP Transmittal Number: W-

Annual Report Number

& Reporting Period: No. 13: March 2015-March

2016

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Karen Anderson Title: Town Administrator

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	
Dainte d Name	Varia M. Andaras
Printed Name:	Karen M. Anderson
TC: 41	T
Title:	Town Administrator
Date:	April 30, 2016
Duic.	1 pm 30, 2010

Part II. Self-Assessment

The Town of Greenland recognizes the importance of the MS-4 Permit and has been working hard to be in compliance with all aspects. Substantial progress has been made on all requirements. Greenland is a small town without a public works staff, but education has been a key focus for our transfer station attendants and management personnel. Management participates in the Seacoast Stormwater Coalition on a monthly basis and assisted with the development of a best management practices manual as well as training courses for key personnel. Greenland was the lead agency in a grant from the NH Coastal Program to develop a BMP manual for the maintenance of recreational fields and green spaces in communities, with particular emphasis on the use of products with nitrogen. The public has become involved in the process and has been supportive of funding requests for this purpose. The Planning Board strengthened the existing stormwater ordinances during the past year. Education for the residents has continued through the catch basin program, ongoing pet waste education and school programs.

During 2015, substantial time was spent reviewing the proposed new regulations, new educational materials have been prepared, new storm water plans written and timelines established for implementation of several new programs. When the final regulations are released, the Town of Greenland will be ready to come into compliance with the new permit. Late 2015, the town received a grant from the Piscataqua regional Estuaries Program to review and adopt the Seacoast Model Stormwater Regulations, replacing our current regulations. Work is continuing on that process.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID # GN1- 001	Participation in Household Hazardous Waste Collection	Responsible Dept./Person Name Karen Anderson, Town	Measurable Goal(s) Number of residents participating	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any) Collection was held in May & September of 2014- in cooperation with	Planned Activities – Future Years Continue to utilize town website, newsletter and media to advertise
Revised	programs Continue participation and Improve notifications about HHW Collection dates	Administrator Karen Anderson, Town Administrator	Increase in number of residents participating	the City of Portsmouth. Advertising and participation expanded. Collection containers have been added at Transfer Station for mercury products. COMPLETED	collection and prepare flyers to be distributed at transfer station, noting date and time and importance of proper disposal of hazardous waste. Maintain options for convenient disposal at Transfer Station for hazardous materials.
GN1- 002	Distribution of stormwater information at transfer station and community picnic.	Town Administrator	Distribution of 1000 flyers	Flyer was developed and distributed at Transfer Station, at Community Picnic event and posted on the town website. Enviroscape was used for	Increased locations for pet waste disposal stations, education to increase to limit the amount of trash placed in the receptacles
Revised	Distribution of stormwater educational information to the members of town land use boards and code enforcement officials	Karen Anderson Town Administrator	Distribution of 1300 flyers; children's activities at community picnic with Enviroscape.	Enviroscape was used for demonstrations during community day with 125+ residents and children participating. 1700 flyers were distributed, 285 coloring books were distributed to children. 650 dog waste bags with informative material were distributed to dog owners when registering their dogs in April, 2008. COMPLETED	Information will be continue to be distributed to all dog owners when they register their dogs in April with the Town Clerk.
GN1-	Section in Town	Karen	Publication of page in	Information regarding stenciling	Information will continue to be
003	Annual Report	Anderson Town Administrator	town report	project and importance of stormwater management was published in annual	published, with more emphasis placed on the actions residents can
Revised			Information was included in Town Administrator's and Health Officer's report.	town report. COMPLETED	take.

GN1-	Participate in	Planning Board	Participation as	Video was prepared through grant to	Town does not have capability to
004	stormwater video	Chairman	requested.	Seacoast Stormwater Coalition.	broadcast on independent cable
	prepared by RPC if			COMPLETED	channel. Notice of broadcast dates of
	requested.				nearby city can be posted on
Revised	Advertise showings of				Greenland website.
	completed video.				
GN1-	Include stormwater	Karen		Information is posted on website.	Continue to update information and
005	section on town website	Anderson Town		COMPLETED	make efforts to draw residents
	when developed.	Administrator			attention to it.
Revised	Update stormwater		Annual update of		
	section on town website		information		

1a. Additions

	Prepare information on	Karen	Press releases	Information was published requesting	Ongoing efforts to keep the media
GN1-	stormwater	Anderson	published	volunteers to assist with marking storm	supplied with material that will
006	management activities	Town		drains in local newspapers and	remind residents of safe practices.
	for local newspapers,	Administrator		conservation organization newsletter.	As a result of the ice storm and the
	focusing on residential			Press releases were published thanking	changed drainage pattern in many
	activities such as car			volunteers for their assistance.	areas from storm debris, information
	washing and				has been publicized for residents to
	fertilization of lawns.			Newspaper articles ran about the pet	clear debris and maintain natural
				waste disposal campaign.	drainage patterns so that driveway
				COMPLETED	runoff will channel and filter
					correctly before reaching any water
					body.

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners	Planned Activities –
				indicated, if any)	
GN2-	Storm drain stenciling	Karen	Marking of storm	100% completion of project.	Monitor markers to see if they are all
001		Anderson Town	drains	Laminated markers were adhered to the	still present and retaining colors/text.
		Administrator		curb or grate of all catch basins noting	

Revised	Storm drain marking	T		if the outfall drained to the bay or	
				wetlands.	
				COMPLETED	
GN2-	Public Meeting to	Board of	Holding meeting	Stormwater Management is highlighted	A new committee is assisting in
002	discuss program	Selectmen	annually.	during the annual public hearing for	getting information out to businesses
				budget and annual town meeting.	and students. Newspaper was
Revised				Topic was discussed at several Board	produced by Conservation Comm.
				of Selectmen's meetings, with the focus	And distributed to all households.
				on the Pet Waste campaign in 2008.	
				COMPLETED	

GN2-	Signage at park	Town	Five signs and two pet waste stations	Maintenance of the signs and
003	locations for dog waste	Administrator	have been installed at recreation fields	education about the dangers of
	reminders.		and residential areas for public use. <i>COMPLETED</i>	improperly disposing of pet waste will be ongoing.

3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
GN3- 001	Maintain map of stormwater sewers	Robert Cushman, Building Inspector	Annual update of maps	Maps were updated as each subdivision or drainage change was made. COMPLETED A GPS unit was purchased for more	Continue to update maps and improve accuracy with the requirement that developers provide map changes in a digital format.
Revised				accurate locations of drainage system components.	
GN3- 002	Review municipal ordinances for means of prohibiting illicit discharges of pollutants to stormwater system Thoroughly review and	Karen Anderson Town Administrator Karen	Approved ordinances	100% complete, required ordinances are adopted. COMPLETED	Refine ordinances and expand beyond minimum requirements. Continue participation with the Seacoast Stormwater Coalition to stay up to date on regulations and best management practices.
	reorganize ordinances.	Anderson and Wallace Berg, Health Officer			Ordinances are being compared to model ordinances that are being put together by the State and a complete reorganization of the ordinances is taking place it consolidate the ordinances into one section to provide a comprehensive stormwater guide. Planning Board is currently reviewing ordinances for further refinement.

GN3- 003	Screen outfalls for illicit connections	Health Officer, Town Administrator	Screen all outfalls by Fall 2007	Complete screening outfalls with GPS effort by Fall 2007. COMPLETED	Assistance was provided through EPA for the GPS work. No connections have been found for two
					years.
				ONGOING – One discharge discovered	
				and corrective actions being taken.	
				COMPLETED	

GN	3- Screening and testing at	Town	Ongoing	Greenland has partnered with UNH for	Test results have not indicated
004	outfalls	Administrator		a comprehensive monitoring and	contaminants, although it was
				testing for selected outfalls.	discovered that a resident was
					disposing of yard waste too close to
					an outfall and that has been
					corrected.

4. Construction Site Stormwater Runoff Control

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#		Dept./Person		Permit Year 12	Future Years
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
GN4-	Review municipal land	Building	List of ordinances	Ordinances are in place for run-off	Prepare educational brochure for
001	use ordinances for	Inspector, Town	present and list of	control.	contractors to clearly show their
	existing control	Administrator	what may be needed.	COMPLETED	requirements.
	mechanisms;		-		-
	recommend additional				
	measures if warranted.				
Revised					
Revised	 				

GN4-	Establish confidential	Town	Establish before	Use of email link for violations	Establish action plan on complaints.
004	reporting procedure for	Administrator,	publication of 2007	established rather than telephone hot	No complaints have been received
	residents to report non-	Building	town report	line. health@greenland-nh.com	this year.
	compliant activities	Inspector,		No complaints were received during	
	_	Health Officer		permit year.	

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 12	
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
GN5-	Review of municipal	Karen	Inspected new	COMPLETED – ONGOING	Inspections post-development will
001	land use ordinances for	Anderson Town	development sites for	INSPECTIONS	continue to insure that required
	existing control	Administrator	compliance and	Commercial development installed	drainage culverts are being properly
	mechanisms;	James	determined that	pervious pavement for parking lot on	maintained and silt is not getting into
	recommend additional	Marchese,	Greenland's	voluntary basis and effectiveness is	system. Road shoulders will be
	measures if warranted.	Building	ordinances were	being monitored.	inspected for evidence of erosion.
		Inspector	effective.		
Revised					

GN%-	Review of drainage	Karen	Reduce or eliminate	Rerouted drainage on Hillside Drive to	Work was completed and efforts are
002	adjacent to outfalls;	Anderson	roadway runoff	an adjacent wetlands rather than toward	now underway to acquire land for
	recommend additional		through drainage	outfall to improve treatment of	further protection.
	measures if warranted		system adjacent to	stormwater	_
			outfalls.		

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
GN6- 001	Clean Catch basins and storm drains annually	Karen Anderson Town Administrator	Catch basins are clean and operating correctly. Cleaning is scheduled and funded.	Catch basin cleaning is contracted annually and was completed in May, 2015. All catch basins were cleaned, material was disposed of on town gravel area, away from any water body.	Greenland will contract for same level of service in 2016. Culvert maintenance was initiated in 2010 with several culverts reshaped and cleared
GN6- 002	Employee Training Program	Karen Anderson, Town Administrator	Insure adequate training for employees.	The Town of Greenland has two employees involved with stormwater management, the Town Administrator and Building Inspector. Both attend trainings to completely understand the requirements.	Town Administrator will continue attending monthly meetings with the Seacoast Stormwater Coalition, working on a BMP manual and keep up to date on information from the EPA. Materials will be collected and organized to provide reference documents for residents and builders. The Building Inspector will continue to attend meetings to be able to detect violations and insure compliance with existing regulations. The Health Officer has become very involved with the reorganization of all water related ordinances and will be attending an IDDE training with

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) << if applicable>>

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
	N/A				
Revised					
Revised					
Revised					
70 A	dditions	1			

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	(\$)	\$15,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	90%
Stormwater management committee established	(y/n)	No
Stream teams established or supported (Funding provided for three test sites)	(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Yes, 100%
Household Hazardous Waste Collection Days		
days sponsored	(#) 2	2
community participation	(%) 340	19%
 material collected – data not provided (oil based paints, chemicals, wet cell batteries) 	(tons or gal)	unknown
School curricula implemented –	(y/n)	Y

Legal/Regulatory

	In Place			
	Prior to	Under		
	Phase II	Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
 Illicit Discharge Detection & Elimination 				X
 Erosion & Sediment Control 				X
Post-Development Stormwater Management				X
Accompanying Regulation Status (indicate with "X")	<u> </u>			
 Illicit Discharge Detection & Elimination 				X
■ Erosion & Sediment Control				X
 Post-Development Stormwater Management 				X

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	25
System-Wide mapping complete	(%)	100%
Mapping method(s)		
 Paper/Mylar 	(%)	100%
CADD	(%)	
• GIS	(%)	
Outfalls inspected/screened	(# or %)	25
Illicit discharges identified		0
Illicit connections removed	(#)	None
	(est. gpd)	
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

Construction

Number of construction starts (>1-acre)	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	None
Fines collected	(# and \$)	None
Complaints/concerns received from public	(#)	1

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)	100%
construction stormwater control		
Site inspections completed	(# or %)	100%
Estimated volume of stormwater recharged –	(gpy)	unknown

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1 per year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1 per year
Total number of structures cleaned	(#)	179
Storm drain cleaned	(LF or mi.)	200'
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	Undetermined
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Sandpit for
		recycling
Cost of screenings disposal	(\$)	0

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	0

Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	0
Qty. of sand/debris collected by sweeping	(lbs. or tons)	N/A
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	N/A
Cost of sweepings disposal	(\$)	N/A
Vacuum street sweepers purchased/leased	(#)	N/A
Vacuum street sweepers specified in contracts	(y/n)	N/A

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
 Fertilizers 	(lbs. or %)	100%
Herbicides	(lbs. or %)	75%
 Pesticides *treatment for grubs had to be instituted at cemetery in 2015 	(lbs. or %)	80%

Anti-/De-Icing products and ratios	% NaCl	75% varies
	% CaCl ₂	depending on
	% MgCl ₂	weather
	% CMA	conditions
	% Kac	
	% KCl	
	% Sand	
Pre-wetting techniques utilized	(y/n)	No
Manual control spreaders used	(y/n)	Yes 50%
Automatic or Zero-velocity spreaders used	(y/n)	Yes 50%
Estimated net reduction in typical year salt application	(lbs. or %)	Not
		determined
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	No